result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:47:44 ON 05 FEB 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:47:54 ON 05 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 FEB 2003 HIGHEST RN 485752-98-5
DICTIONARY FILE UPDATES: 4 FEB 2003 HIGHEST RN 485752-98-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

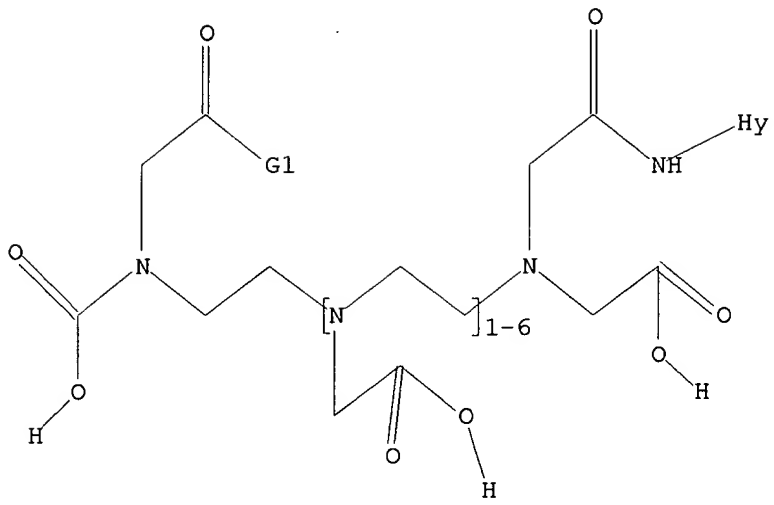
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09720965 second goround.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

```
=> search l1 sss sam
SAMPLE SEARCH INITIATED 12:48:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> search l1 sss full
FULL SEARCH INITIATED 12:49:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     62 TO ITERATE

100.0% PROCESSED      62 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

=> file marpat
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   149.35     149.56

FILE 'MARPAT' ENTERED AT 12:50:00 ON 05 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)
```

FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 138 ISS 5)(20030131/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6503875 07 JAN 2003
DE 20211496 09 JAN 2003
EP 1273706 08 JAN 2003
JP 2003012484 15 JAN 2003
WO 2003002586 09 JAN 2003

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> l1
STRUCTURE TOO LARGE - SEARCH ENDED
A structure in your query is too large. You may delete
attributes or atoms to reduce the size of the structure
and try again.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.40	149.96

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:50:29 ON 05 FEB 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'MARPAT' AT 12:53:38 ON 05 FEB 2003
FILE 'MARPAT' ENTERED AT 12:53:38 ON 05 FEB 2003
COPYRIGHT (C) 2003 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.40	149.96

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.40	149.96

FILE 'REGISTRY' ENTERED AT 12:53:55 ON 05 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

```
STRUCTURE FILE UPDATES:     4 FEB 2003  HIGHEST RN 485752-98-5
DICTIONARY FILE UPDATES:    4 FEB 2003  HIGHEST RN 485752-98-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09720965 second goround 2.str

L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> search l4 sss sam
SAMPLE SEARCH INITIATED 12:54:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO        0
PROJECTED ANSWERS:                0 TO        0

L5            0 SEA SSS SAM L4

=> search l4 sss full
FULL SEARCH INITIATED 12:54:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      7 TO ITERATE

100.0% PROCESSED       7 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L6            0 SEA SSS FUL L4

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             148.55     298.51

FILE 'CAPLUS' ENTERED AT 12:54:56 ON 05 FEB 2003
```

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> DTPA
7688 DTPA
5 DTPAS
L7 7688 DTPA
(DTPA OR DTPAS)

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.14	300.65

FILE 'REGISTRY' ENTERED AT 12:55:07 ON 05 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 FEB 2003 HIGHEST RN 485752-98-5
DICTIONARY FILE UPDATES: 4 FEB 2003 HIGHEST RN 485752-98-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e DTPA/cn
E1 1 DTP 470/CN
E2 1 DTP-N-GDP/CN

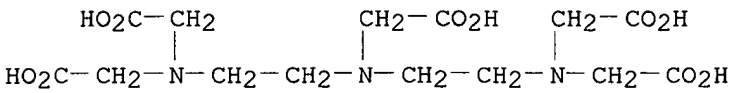
```
E3            1 --> DTPA/CN
E4            1     DTPA ANHYDRIDE/CN
E5            1     DTPA CALCIUM TRISODIUM SALT/CN
E6            1     DTPA CYCLIC ANHYDRIDE/CN
E7            1     DTPA DIANHYDRIDE/CN
E8            1     DTPA DISODIUM SALT/CN
E9            1     DTPA PENTASODIUM SALT/CN
E10           1     DTPA-BDMA/CN
E11           1     DTPA-BIOTIN/CN
E12           1     DTPA-BMA/CN

=> e3
L8            1 DTPA/CN

=> d l8

L8   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   67-43-6  REGISTRY
CN   Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI)  (CA
     INDEX NAME)
OTHER NAMES:
CN   1,1,4,7,7-Diethylenetriaminepentaacetic acid
CN   3,6,9-Triazaundecanedioic acid, 3,6,9-tris(carboxymethyl)-
CN   Acetic acid, 2,2',2'',2'''-[[(carboxymethyl)imino]bis(2,1-
     ethanediylnitrilo)]tetrakis-
CN   Chel 330 acid
CN   Chel DTPA
CN   Clewat DA
CN   Complexon V
CN   Dabeersen 503
CN   Detapac
CN   Detarex
CN   DETP
CN   DETPA
CN   Diethylenetriamine-N,N,N',N'',N''-pentaacetic acid
CN   Diethylenetriaminepentaacetic acid
CN   Dissolvine D
CN   DPTA
CN   DTPA
CN   Hamp-Ex Acid
CN   Monaquest CAI
CN   N,N-Bis[2-[bis(carboxymethyl)amino]ethyl]glycine
CN   Pentacarboxymethyl diethylenetriamine
CN   Pentetic acid
CN   Titriplex V
CN   [[(Carboxymethyl)imino]bis(ethylenenitrilo)]tetraacetic acid
FS   3D CONCORD
DR   13407-13-1, 6889-50-5, 7575-40-8, 25737-54-6, 84932-15-0, 49758-21-6
MF   C14 H23 N3 O10
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*,
       HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSHTIC,
       PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2,
       USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
```

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5136 REFERENCES IN FILE CA (1962 TO DATE)
1468 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5148 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.30	306.95

FILE 'CAPLUS' ENTERED AT 12:55:41 ON 05 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l8
L9 5149 L8

=> d his

(FILE 'HOME' ENTERED AT 12:47:44 ON 05 FEB 2003)

FILE 'REGISTRY' ENTERED AT 12:47:54 ON 05 FEB 2003
L1 STRUCTURE UPLOADED
L2 0 SEARCH L1 SSS SAM
L3 0 SEARCH L1 SSS FULL

FILE 'MARPAT' ENTERED AT 12:50:00 ON 05 FEB 2003

```
     FILE 'REGISTRY' ENTERED AT 12:53:55 ON 05 FEB 2003
L4                STRUCTURE UPLOADED
L5              0 SEARCH L4 SSS SAM
L6              0 SEARCH L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 12:54:56 ON 05 FEB 2003
L7           7688 DTPA

     FILE 'REGISTRY' ENTERED AT 12:55:07 ON 05 FEB 2003
                E DTPA/CN
L8              1 E3

     FILE 'CAPLUS' ENTERED AT 12:55:41 ON 05 FEB 2003
L9           5149 L8

=> l7 or l9
L10         9714 L7 OR L9

=> ?phenone?
L11        94875 ?PHENONE?

=> l10 and l11
L12           26 L10 AND L11

=> l10(l)l11
L13            4 L10(L)L11

=> d l13 1-4 ti

L13  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Friedel-Crafts acylation using sulfated zirconia catalyst

L13  ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Some phenones and their derivatives as indicators for titrimetric
     determination of Fe(III) with diethylenetriaminepentaacetic acid

L13  ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Site-directed chemical modification and crosslinking of a monoclonal
     antibody using equilibrium transfer alkylating crosslink reagents

L13  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Stability constants of biligand chelates of lanthanum(III) and
     neodymium(III) with NTA, HEDTA, EDTA, CYDTA and DTPA as primary ligands
     and aromatic dihydroxy compounds as secondary ligands


=> d l13 1-4 ti fbib abs

L13  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Friedel-Crafts acylation using sulfated zirconia catalyst
AN   1999:273678  CAPLUS
DN   131:115907
TI   Friedel-Crafts acylation using sulfated zirconia catalyst
AU   Yadav, G. D.; Pujari, A. A.
CS   University Department of Chemical Technology (UDCT), Chemical Engineering
     Division, University of Mumbai, Matunga, Mumbai, 400 019, India
SO   Green Chemistry (1999), 1(2), 69-74
     CODEN: GRCHFJ; ISSN: 1463-9262
PB   Royal Society of Chemistry
```

DT Journal
LA English
AB Synthesis of fine chems. and intermediates by using Friedel-Crafts acylations is an important process in org. chem. technol. In most cases, very good yield and selectivity can be obtained with aluminum chloride as catalyst in conjunction with nitrobenzene as solvent. However, with modern environmental restrictions, in consonance with green chem., replacement of aluminum chloride-nitrobenzene or BF3-HF with solid catalysts has great industrial relevance. Acylation of benzene with 4-chlorobenzoyl chloride was attempted with different solid acid catalysts such as dodecatungstophosphoric acid (**DTPA**), **DTPA**/K-10 clay, K-10, Amberlite, Amberlyst-15, Indion-130, Filtrol-24 clay, and sulfated zirconia. However, only sulfated zirconia was found to be effective leading to 100% selective formation of 4-**chlorobenzophenone**, which is useful as an org. and pharmaceutical intermediate; for instance, in the manuf. of Cytrazin-a well known drug. The kinetics of the reaction was studied to establish that the reaction obeys the Langmuir-Hinshelwood-Hougen-Watson mechanism with very weak adsorption of the reactants. The reaction is intrinsically kinetically controlled.
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Some phenones and their derivatives as indicators for titrimetric determination of Fe(III) with diethylenetriaminepentaacetic acid
AN 1996:495112 CAPLUS
DN 125:264437
TI Some phenones and their derivatives as indicators for titrimetric determination of Fe(III) with diethylenetriaminepentaacetic acid
AU Talati, J. D.; Shah, S. S.
CS Dep. Chem., Shri V.L. Shah Commerce Coll., Pilvai, 382 850, India
SO Asian Journal of Chemistry (1996), 8(3), 443-448
CODEN: AJCHEW; ISSN: 0970-7077
PB Asian Journal of Chemistry
DT Journal
LA English
AB 2-Hydroxy-4-n-**butoxyacetophenone**, 2-hydroxy-4-n-**butoxypropiophenone**, 2-hydroxy-4-n-butoxy-5-**nitroacetophenone**, 2-hydroxy-4-n-butoxy-5-**nitropropiophenone**, 2-hydroxy-4-n-**butoxyacetophenone** ethylenediamine and 2-hydroxy-4-n-**butoxyacetophenone** thiosemicarbazone were used as indicators for the direct diethylenetriaminepentaacetic acid (**DTPA**) titrn. of Fe(III). Fe(III) can be quant. detd. with an error of measurement of .ltoreq. .+-.0.4% from solns. contg. 280 ppm or more of Fe in the pH range 1.5-3.0.
A no. of diverse ions can be tolerated but Ca2+, Ba2+, Sr2+, Cu2+, Zn2+, phosphate, tartrate, vanadate, oxalate and citrate interfered. The indicators can also be used for detn. of Fe present in pharmaceuticals prepns.

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Site-directed chemical modification and crosslinking of a monoclonal antibody using equilibrium transfer alkylating crosslink reagents
AN 1990:96471 CAPLUS
DN 112:96471
TI Site-directed chemical modification and crosslinking of a monoclonal

antibody using equilibrium transfer alkylating crosslink reagents
AU Liberatore, Frederick A.; Comeau, Robert D.; McKearin, James M.; Pearson, Daniel A.; Belonga, Benjamin Q., III; Brocchini, Stephen J.; Kath, John; Phillips, Terri; Oswell, Kira; Lawton, Richard G.
CS Med. Prod. Dep., E. I. du Pont de Nemours and Co., North Billerica, MA, 01862, USA
SO Bioconjugate Chemistry (1990), 1(1), 36-50
CODEN: BCCHES; ISSN: 1043-1802
DT Journal
LA English
AB A new, more reactive group of protein crosslinkers in the class of equil. transfer alkylating crosslink (ETAC) reagents was synthesized. These compds. include .alpha.,.alpha.-bis[(p-chlorophenyl)methyl]- and .alpha.,.alpha.-bis[(p-tolylsulfonyl)methyl]**acetophenones** substituted in the **acetophenone** ring with chloro, nitro, amino, and carboxyl groups and derivs. Included are an 125I-labeled ETAC reagent and an 111In-labeled **DTPA** ETAC for site direction and biodistribution studies. These ETAC compds. were reacted with unreduced and partially reduced antibody under mild pH (pH 4-8) and room temp. conditions to give crosslinked structures. Examn. of resultant crosslinked antibody via size-exclusion HPLC, SDS-PAGE, and an ELISA revealed that: (1) both interantibody as well as intraantibody crosslinking had occurred; (2) the level of inter- and intraantibody crosslinking varied with the substituent on the ETAC; (3) the stability of the cross-links on the reducing SDS gels varied with substituents on the ETAC; (4) little if any immunoreactivity was lost after reaction with one of the more effective ETAC crosslinking compds.; (5) the 125I-labeled ETAC SH crosslinking in partially reduced antibody increased with pH whereas amine crosslinking with the unreduced antibody decreased with pH; (6) the optimum pH for SH site direction was pH 5.0; and (7) the 111In **DTPA** ETAC-labeled antibody had a biodistribution in CD1 mice similar to that of the 111In-bis cyclic anhydride **DTPA** labeled antibody.

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Stability constants of biligand chelates of lanthanum(III) and neodymium(III) with NTA, HEDTA, EDTA, CYDTA and DTPA as primary ligands and aromatic dihydroxy compounds as secondary ligands
AN 1987:624058 CAPLUS
DN 107:224058
TI Stability constants of biligand chelates of lanthanum(III) and neodymium(III) with NTA, HEDTA, EDTA, CYDTA and DTPA as primary ligands and aromatic dihydroxy compounds as secondary ligands
AU Kale, B. D.; Mhaske, T. H.
CS Dep. Chem., Vidarbha Mahavidyalaya, Amravati, 444 604, India
SO Journal of the Indian Chemical Society (1987), 64(6), 365-6
CODEN: JICSAH; ISSN: 0019-4522
DT Journal
LA English
AB Coordination of La(III) and Nd(III) with NTA, HEDTA, EDTA, CYDTA and **DTPA** as primary ligands and alizarin red-S, hydroquinone and **raseacetophenone** as secondary ligands were detd. pH-metrically at 25, 35 and 45.degree. and ionic strength 0.1 M (KNO3). Proton-ligand consts. for the secondary ligands and metal-ligand consts. for the 1:1:1 complexes were calcd. by the Irving-Rossotti method. Thermodn. parameters

were also calcd.

```
=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      16.35     323.30

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.60      -2.60

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:00:53 ON 05 FEB 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:01:11 ON 05 FEB 2003
FILE 'CAPLUS' ENTERED AT 13:01:11 ON 05 FEB 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      16.35     323.30

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.60      -2.60

=> d his

     (FILE 'HOME' ENTERED AT 12:47:44 ON 05 FEB 2003)

     FILE 'REGISTRY' ENTERED AT 12:47:54 ON 05 FEB 2003
L1             STRUCTURE UPLOADED
L2           0 SEARCH L1 SSS SAM
L3           0 SEARCH L1 SSS FULL

     FILE 'MARPAT' ENTERED AT 12:50:00 ON 05 FEB 2003

     FILE 'REGISTRY' ENTERED AT 12:53:55 ON 05 FEB 2003
L4             STRUCTURE UPLOADED
L5           0 SEARCH L4 SSS SAM
L6           0 SEARCH L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 12:54:56 ON 05 FEB 2003
L7        7688 DTPA

     FILE 'REGISTRY' ENTERED AT 12:55:07 ON 05 FEB 2003
               E DTPA/CN
```

```
L8            1 E3

     FILE 'CAPLUS' ENTERED AT 12:55:41 ON 05 FEB 2003
L9         5149 L8
L10        9714 L7 OR L9
L11       94875 ?PHENONE?
L12          26 L10 AND L11
L13           4 L10(L)L11

=> l12 not l13
L14          22 L12 NOT L13

=> d l14 1-22 ti

L14  ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Prediction models for eye irritation potential based on endpoints of the
     HETCAM and neutral red uptake tests

L14  ANSWER 2 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Novel stabilized formulations for chemiluminescent assays

L14  ANSWER 3 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Mechanism of lipid peroxidation photosensitized by tiaprofenic acid:
     product studies using linoleic acid and 1,4-cyclohexadienes as model
     substrates

L14  ANSWER 4 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Electrolytic solution for electrolytic capacitor and electrolytic
     capacitor using the same

L14  ANSWER 5 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Skin preparations for UV-induced rough skin and skin pigmentation

L14  ANSWER 6 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of novel fluorescent lanthanide chelates for use in
     bioaffinity assays

L14  ANSWER 7 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for removing deleterious deposits from a surface using nail polish
     removers

L14  ANSWER 8 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of radiolabeled platelet GPIIb/IIIa receptor antagonists as
     imaging agents for the diagnosis of thromboembolic disorders

L14  ANSWER 9 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Inhibition of pulp and paper yellowing using nitroxides and other
     co-additives

L14  ANSWER 10 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Synthesis of a New Spin Trap:
2-(Diethoxyphosphoryl)-2-phenyl-3,4-dihydro-
     2H-pyrrole 1-Oxide

L14  ANSWER 11 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Ink-jet printing sheet for transparency preparation

L14  ANSWER 12 OF 22  CAPLUS  COPYRIGHT 2003 ACS
TI   Cobalt compound bleach activators, bleaching or washing compositions
```

containing them, and their preparation and use

L14 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Biodegradable injectable particles for imaging

L14 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Crosslinked acidic polysaccharides and their uses

L14 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Process for the preparation of aromatic polycarbonates

L14 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of radiolabeled platelet GPIIb/IIIa receptor antagonists as imaging agents for the diagnosis of thromboembolic disorders.

L14 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Characteristics of the adsorption of ions and surfactants on products of metal corrosion and salt deposits

L14 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Enzyme amplified lanthanide chelate luminescence assay

L14 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Electrolyte additives for zinc-anoded secondary cells. I. Brighteners, levelers and complexants

L14 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Thiosemicarbazones as indicators for the complexometric determination of iron(III)

L14 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Burning-in treatment of presensitized lithographic plates

L14 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI The reactions of stabilized and unstabilized alkaline hydrogen peroxide with lignin model dimers

=> d l14 6 ti fbib abs

L14 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of novel fluorescent lanthanide chelates for use in bioaffinity assays
AN 2000:34852 CAPLUS
DN 132:102050
TI Preparation of novel fluorescent lanthanide chelates for use in bioaffinity assays
IN Chan, George Wai-Kin; Hertzberg, Robert P.
PA SmithKline Beecham Corporation, USA
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000001663	A1	20000113	WO 1999-US15366	19990707

W: CA, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE

			US 1998-91944P P	19980707
CA 2336904	AA	20000113	CA 1999-2336904	19990707
			US 1998-91944P P	19980707
			WO 1999-US15366W	19990707
EP 1095011	A1	20010502	EP 1999-932334	19990707
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			US 1998-91944P P	19980707
			WO 1999-US15366W	19990707
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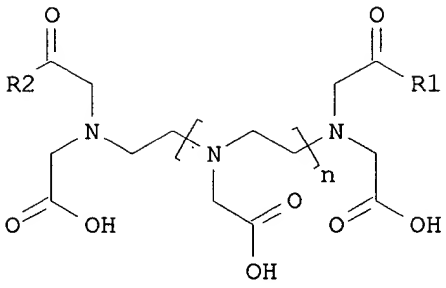

I

AB The present invention provides complexing agents of Formula (I) which contain novel photosensitizers and produce long-lived fluorescence for use in bioaffinity assays, esp. HTRF (homogeneous time-resolved fluorescence) assays. Thus, 3AAP-**DTPA**-4APEA (I; R1 = NH-C6H4-3-COCH3, R2 = NHCH2CH2-C6H4-4-NH2) was prepd. and fluorescence lifetimes of its Eu(III) and Tb(III) chelates measured.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l14 13 ti fbib abs

L14 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS
TI Biodegradable injectable particles for imaging
AN 1996:637636 CAPLUS
DN 125:322360
TI Biodegradable injectable particles for imaging
IN Gref, Ruxandra; Minamitake, Yoshiharu; Langer, Robert S.
PA Massachusetts Institute of Technology, USA
SO U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 96,370.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5565215	A	19961015	US 1994-210677	19940318

				US 1993-96370	19930723
US	5543158	A	19960806	US 1993-96370	19930723
US	5578325	A	19961126	US 1994-265440	19940624
				US 1993-96370	19930723
				US 1994-210677	19940318
WO	9503356	A1	19950202	WO 1994-US8287	19940722

W: CA, JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

				US 1993-96370	19930723
				US 1994-210677	19940318
				US 1994-265440	19940624
WO	9503357	A1	19950202	WO 1994-US8416	19940722

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

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EP	710261	A1	19960508	EP 1994-922733	19940722

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				WO 1994-US8416	19940722
EP	712421	A1	19960522	EP 1994-925102	19940722

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				US 1994-210677	19940318
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JP	09504308	T2	19970428	JP 1994-505337	19940722
				US 1993-96370	19930723
				US 1994-210677	19940318
				US 1994-265440	19940624
				WO 1994-US8287	19940722

PATENT FAMILY INFORMATION:

FAN 1995:471865

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9503357	A1	19950202	WO 1994-US8416	19940722

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US	5543158	A	19960806	US 1993-96370	19930723
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FAN 1995:822985

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PI	WO 9503356	A1	19950202	WO 1994-US8287	19940722

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				US 1994-210677	19940318
				US 1994-265440	19940624
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	US 5565215	A	19961015	US 1994-210677	19940318
				US 1993-96370	19930723
	US 5578325	A	19961126	US 1994-265440	19940624
				US 1993-96370	19930723
				US 1994-210677	19940318
	EP 712421	A1	19960522	EP 1994-925102	19940722

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				US 1994-265440	19940624
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FAN 1996:725305

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				US 1994-210677	19940318
	US 5543158	A	19960806	US 1993-96370	19930723
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				US 1993-96370	19930723
	WO 9503356	A1	19950202	WO 1994-US8287	19940722

W: CA, JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

				US 1993-96370	19930723
				US 1994-210677	19940318
				US 1994-265440	19940624
	CA 2167920	AA	19950202	CA 1994-2167920	19940722
				US 1993-96370	19930723
				US 1994-210677	19940318
				US 1994-265440	19940624
	EP 712421	A1	19960522	EP 1994-925102	19940722

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

				US 1993-96370	19930723

				US 1994-210677	19940318
				US 1994-265440	19940624
				WO 1994-US8287	19940722
	JP 09504308	T2	19970428	JP 1994-505337	19940722
				US 1993-96370	19930723
				US 1994-210677	19940318
				US 1994-265440	19940624
				WO 1994-US8287	19940722

AB Injectable nanoparticles or microparticles are provided that are not rapidly cleared from the blood stream by the macrophages of the reticuloendothelial system and that can be modified as necessary to achieve variable release rates or to target specific cells or organs as desired. The terminal hydroxyl group of a poly(alkylene glycol), e.g., polyethylene glycol, can be used to covalently attach onto the surface of the injectable particles biol. active mols., including antibodies targeted to specific cells or organs, or mols. affecting the charge, lipophilicity, or hydrophilicity of the particle. The surface of the particle can also be modified by attaching biodegradable polymers of the same structure as those forming the core of the injectable particles. The injectable particles include magnetic particles or radiopaque materials for diagnostic imaging.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.34	346.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.91	-3.91

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NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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STRUCTURE FILE UPDATES:     4 FEB 2003  HIGHEST RN 485752-98-5
DICTIONARY FILE UPDATES:    4 FEB 2003  HIGHEST RN 485752-98-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e 3-aminoacetophenone/cn
E1            1     3-AMINOACETANILIDE HYDROCHLORIDE/CN
E2            1     3-AMINOACETANILIDE-4,6-DISULFONIC ACID/CN
E3            0 --> 3-AMINOACETOPHENONE/CN
E4            1     3-AMINOACRIDINE/CN
E5            1     3-AMINOACRIDONE/CN
E6            1     3-AMINOACROLEIN/CN
E7            1     3-AMINOACRYLIC ACID/CN
E8            1     3-AMINOACRYLONITRILE/CN
E9            1     3-AMINOACRYLOPHENONE/CN
E10           1     3-AMINOADENINE/CN
E11           1     3-AMINOALANINE SYNTHASE/CN
E12           1     3-AMINOALIZARIN/CN

=> e acetophenone,3-amino-/cn
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E2            1     ACETOPHENONE, TRIPHENYLPHOSPHAZINE/CN
E3            0 --> ACETOPHENONE,3-AMINO-/CN
E4            1     ACETOPHENONE-.ALPHA.,.ALPHA.,.ALPHA.-D3/CN
E5            1     ACETOPHENONE-.ALPHA.-D/CN
E6            1     ACETOPHENONE-.BETA.-NAPHTHOL COPOLYMERS/CN
E7            1     ACETOPHENONE-.BETA.-NAPHTHOL POLYMER/CN
E8            1     ACETOPHENONE-.BETA.-NAPHTHOL-PHENOL POLYMER/CN
E9            1
ACETOPHENONE-1,1-BIS(4-HYDROXYPHENYL)-1-PHENYLETHANE-FORMALD
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E12           1     ACETOPHENONE-1,2-14C2, 2,2,2',5'-TETRACHLORO-/CN

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FULL ESTIMATED COST                                       0.80       1.01

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STN INTERNATIONAL SESSION SUSPENDED AT 08:56:28 ON 06 FEB 2003

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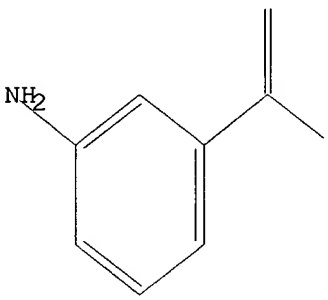


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100.0% PROCESSED 81 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L2 3 SEA EXA FUL L1

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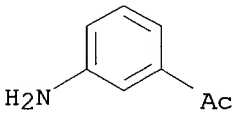
CI PMS

CM 1



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
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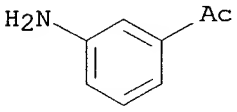
CI RIS



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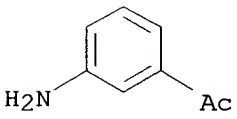

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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L2 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN 99-03-6 REGISTRY
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OTHER CA INDEX NAMES:
CN Acetophenone, 3'-amino- (8CI)
OTHER NAMES:
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CN 1-(3-Aminophenyl)ethanone
CN 1-Acetyl-3-aminobenzene
CN 3'-Aminoacetophenone
CN 3-Acetylaniline
CN 3-Acetylphenylamine
CN m-Acetylaniline
CN m-Aminoacetophenone
CN m-Aminoacetylbenzene
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MF C8 H9 N O
CI COM
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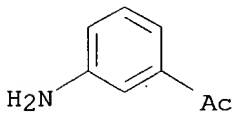
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



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476 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FULL ESTIMATED COST	53.43	53.64

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FILE COVERS 1907 - 6 Feb 2003 VOL 138 ISS 6
FILE LAST UPDATED: 5 Feb 2003 (20030205/ED)

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              5 DTPAS
L4         7688 DTPA
                (DTPA OR DTPAS)

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L5            2 L3 AND L4

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L5   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of novel fluorescent lanthanide chelates for use in
     bioaffinity assays
AN   2000:34852  CAPLUS
DN   132:102050
TI   Preparation of novel fluorescent lanthanide chelates for use in
     bioaffinity assays
IN   Chan, George Wai-Kin; Hertzberg, Robert P.
PA   SmithKline Beecham Corporation, USA
SO   PCT Int. Appl., 20 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.  DATE
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         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
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WO 1999-US15366W 19990707

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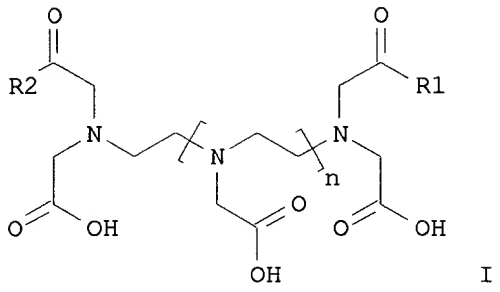

I

AB The present invention provides complexing agents of Formula (I) which contain novel photosensitizers and produce long-lived fluorescence for use in bioaffinity assays, esp. HTRF (homogeneous time-resolved fluorescence) assays. Thus, 3AAP-**DTPA**-4APEA (I; R1 = NH-C6H4-3-COCH3, R2 = NHCH2CH2-C6H4-4-NH2) was prepd. and fluorescence lifetimes of its Eu(III) and Tb(III) chelates measured.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Polypeptide and protein conjugation to proteins, reporter groups, and cytotoxic agents for diagnosis and therapy
AN 1989:228179 CAPLUS
DN 110:228179
TI Polypeptide and protein conjugation to proteins, reporter groups, and cytotoxic agents for diagnosis and therapy
IN Offord, Robin Ewart; Rose, Keith
PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
SO Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 243929	A2	19871104	EP 1987-106113	19870428
	EP 243929	A3	19891011		
	EP 243929	B1	19950727		
	R: CH, DE, FR, GB, IT, LI, NL				
				GB 1986-10551	19860430
	JP 62267300	A2	19871119	JP 1987-107898	19870430
	JP 2528464	B2	19960828		
				GB 1986-10551	19860430
	JP 08259600	A2	19961008	JP 1996-46752	19960208
	JP 2900992	B2	19990602		
				GB 1986-10551	19860430

AB A protein is conjugated, through a coupler via Schiff base linkages which may be stabilized by redn., to the same or another protein, a reporter group, or a cytotoxic agent. The linkages are formed at specific sites on

the protein (esp. at the C-terminus by enzymic means) so as not to inactivate the active site. The reporter group may be a chelating agent which can bind a radioactive metal for use in diagnosis and therapy. The protein may be an antibody or antibody fragment. A buffered soln. of m-aminobenzaldehyde di-Me acetal was added to Zn-free insulin and the mixt. was incubated with trypsin to produce de-AlaB30-insulin B29-m-formylanilide. m-Aminobenzoic acid was sep. converted in 2 steps to the tert-butyloxycarbonyl-m-aminobenzoic acid hydroxysuccinimido ester, which was conjugated with ferrioxamine B and deblocked. This product was conjugated with the insulin deriv. and the product was reduced with NaBH3CN. Fe was removed from the conjugate with EDTA and the conjugate was labeled with 111In or 68Ga.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.39	66.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.30	-1.30

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:08:45 ON 06 FEB 2003